



MONICA A-1912080@nec



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DAILY CHALLENGE

ProgramID- 6370



SkillRack

Rotate Matrix Clock-wise

An integer matrix of size $N \times N$ is given as the input. The program must rotate the matrix in the clockwise direction and print the rotated matrix as the output.

Boundary Condition(s):

 $2 \leq N \leq 50$

Input Format:

The first line contains the value of N .

The next N lines contain N integers each separated by space.

Output Format:

The first N lines contain N integers each separated by space.

Example Input/Output 1:

Input:

5

1 2 3 4 5

6 7 8 9 10

23 45 67 89 45

12 23 45 67 78

11 12 13 14 15

Output:

11 12 23 6 1

12 23 45 7 2

13 45 67 8 3
14 67 89 9 4
15 78 45 10 5

Example Input/Output 2:

Input:

7

11 12 13 14 15 16 67
12 23 34 45 56 67 45
23 34 45 56 67 78 45
34 45 56 67 78 89 65
45 56 67 78 89 90 12
12 23 34 45 56 76 34
23 34 45 56 67 89 45

Output:

23 12 45 34 23 12 11
34 23 56 45 34 23 12
45 34 67 56 45 34 13
56 45 78 67 56 45 14
67 56 89 78 67 56 15
89 76 90 89 78 67 16
45 34 12 65 45 45 67

Max Execution Time Limit: 5000 millisecs

Ambiance



Java (12.0)



Reset

```
1 import java.util.*;  
2 public class Hello {  
3  
4     public static void main(String[] args) {  
5         Scanner sc=new Scanner(System.in);  
6         int n=sc.nextInt();  
7         int arr[][]=new int[n][n];  
8         for(int i=0;i<n;i++){  
9             for(int j=0;j<n;j++){  
10                 arr[i][j]=sc.nextInt();  
11             }  
12         }  
13         for(int i=0;i<n;i++){  
14             for(int j=i;j<n;j++){  
15                 if(i!=j){  
16                     int t=arr[i][j];  
17                     arr[i][j]=arr[j][i];  
18                     arr[j][i]=t;  
19                 }  
20             }  
21         }  
22     }  
23 }
```

```
17         arr[l][j]-arr[j][l],
18         arr[j][i]=t;
19     }
20 }
21 }
22 for(int i=0;i<n;i++){
23     int l=0,h=n-1;
24     while(l<h){
25         int t=arr[i][l];
26         arr[i][l]=arr[i][h];
27         arr[i][h]=t;
28         l++;
29         h--;
30     }
31 }
32
33 //System.out.print(Arrays.deepToString(arr));
34 for(int i=0;i<n;i++){
35     for(int j=0;j<n;j++){
36         System.out.print(arr[i][j]);
37     }
38     System.out.println();
39 }
40
41 }
42 }
```

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Save

Run

☐ Run with a custom test case (Input/Output)